

1. A GFP protein comprising the amino acid sequence set forth in SEQ ID No. 1 in the Sequence Listing, said sequence having at least mutations of Phe64Leu, Val163Ala, and Ser175Gly.

2. A GFP protein comprising the amino acid sequence set forth in SEQ ID No. 1 in the Sequence Listing, said sequence having the three mutations of Phe64Leu, Val163Ala, and Ser175Gly.

3. A BFP protein comprising the amino acid sequence set forth in SEQ ID No. 1 in the Sequence Listing, said sequence having at least mutations of Y66H, Y145F, and Phe64Leu.

4. A BFP protein comprising the amino acid sequence set forth in SEQ ID No. 1 in the Sequence Listing, said sequence having at least mutations of Y66H, Y145F, Phe64Leu, and Leu236Arg.

5. A BFP protein comprising the amino acid sequence set forth in SEQ ID No. 1 in the Sequence Listing, said sequence having the four mutations of Y66H, Y145F, Phe64Leu, and Leu236Arg.

6. A BFP protein comprising the amino acid sequence set forth in SEQ ID No. 1 in the Sequence Listing, said sequence having at least mutations of Y66H, Y145F, Phe64Leu, Val163Ala, Ser175Gly and Leu236Arg.

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7. A BFP protein comprising the amino acid sequence set forth in SEQ ID No. 1 in the Sequence Listing, said sequence having the six mutations of Y66H, Y145F, Phe64Leu, Val163Ala, Ser175Gly and Leu236Arg.

8. A gene encoding the GFP protein according to claim 1.

9. A gene encoding the GFP protein according to claim 2.

10. A gene encoding the BFP protein according to claim 3.

11. A gene encoding the BFP protein according to claim 4.

12. A gene encoding the BFP protein according to claim 5.

13. A gene encoding the BFP protein according to claim 6.

14. A gene encoding the BFP protein according to claim 7.

000150-00025860

Sub A9

add A107

21

38 44